

Form PTO-1449 <b>INFORMATION DISCLOSURE CITATION</b> IN AN APPLICATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) MTV-031.01 (20021-3101)	Application Number 09/848,609		
				Applicant Laibinis et al.			
				Filing Date May 3, 2001	Group Art Unit 1645		
<i>RECEIVED MAR 15 2002 PATENT &amp; TRADEMARK OFFICE TECH CENTER 1600 16/24/97</i>		<i>RECEIVED MAR 20 2002 TECH CENTER 1600 05/16/96</i>		<i>RECEIVED MAR 20 2002 TECH CENTER 1600 16/24/98</i>			
A27	US 5,919,523	07/06/99	Sundberg et al.	427	332 6 6 6 411.1		
A28	US 6,045,996	04/04/00	Cronin et al.	435	16/24/97 002.05/16/96		
A29	US 6,087,102	07/11/00	Chenchik et al.	435	16/24/98		
A30	US 6,156,501	12/05/00	McGall et al.	435	04/03/96		
A31	US 6,180,239	01/30/01	Whitesides et al.	428	07/08/96		
<b>FOREIGN PATENT DOCUMENTS</b>							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
B1	WO 89/11548	11/30/89	PCT				X
B2	WO 90/07582	07/12/90	PCT				X
B3	WO 90/15070	12/13/90	PCT				X
B4	WO 91/00868	01/24/91	PCT				X
B5	WO 91/07087	05/30/91	PCT				X
<b>OTHER DOCUMENTS</b>						<i>(Including Author, Title, Date, Pertinent Pages Etc.)</i>	
C1	Asseline and Thuong; "Solid-Phase Synthesis of Modified Oligodeoxyribonucleotides With an Acridine Derivative or a Thiophosphate Group at their 3' End", Tetrahedron Letters, 30(19): 2521-2524, (1989)						
C2	Asseline et al, "Nucleic Acid-binding Molecules with high Affinity and base Sequence Specificity: Intercalating Agents Covalently Linked to Oligodeoxynucleotides", Proc. Natl. Acad. Sci. USA 81: 3297-3301, (June 1984).						
C3	Bayard et al.; "Activation of Ribonuclease L. by (2'-5') <sub>n</sub> (A) <sub>4</sub> - Poly(L-lysine) Conjugates in Intact Cells", Biochemistry, 25: 3730-3736, (1986)						
C4	Fodor et al.; "Light-Directed, Spatially Addressable Parallel Chemical Synthesis", Science 251: 767-773, (February 15, 1991)						
C5	Froehler et al; "Synthesis of DNA Via Deoxynucleotide H-Phosphonate Intermediates", Nucleic Acids Research 14(13): 5399-5407, (1986)						
C6	Froehler et al.; "Oligodeoxynucleotides Containing C-5 Propyne Analogs of 2'-Deoxyuridine and 2'-Deoxycytidine", Tetrahedron Letters, Vol. 33(37): 5307-5310, (1992)						
C7	Jäger et al.; "Oligonucleotide N-Alkylphosphoramidates: Synthesis and Binding to Polynucleotides", Biochemistry 27: 7237-7246, (1988)						
C8	Lancelot et al.; "Proton and Phosphorus Nuclear Magnetic Resonance Studies of an Oligothymidylate Covalently Linked to an Acridine Derivative and of Its Binding to Complementary Sequences", Biochemistry 24: 2521-2529, (1985)						
C9	Lemaire et al.; "Biological Activities of Oligonucleotides Linked to Poly(L-Lysine)", Nucleosides and Nucleotides, 6 (1&2): 311-315, ( 1987)						
C10	Lesnikowski J. Z. "Stereocontrolled Synthesis of P-Chiral Analogues of Oligonucleotides", Bioorganic Chemistry 21: 127-155 (1993)						

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**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
A1	US 4,282,287	08/04/81	Giese	428	407	07/24/81
A2	US 4,469,863	09/04/84	Ts'o et al.	536	27	MAR 12 1984
A3	US 4,507,433	03/26/85	Miller et al.	525	54.11	TECH CENTER 1600/2900
A4	US 4,542,102	09/17/85	Dattagupta et al.	435	6	07/05/83
A5	US 4,562,157	12/31/85	Lowe et al.	435	291	05/25/84
A6	US 4,681,870	07/21/87	Balint, Jr. et al.	502	403	01/11/85
A7	US 4,711,955	12/08/87	Ward et al.	536	29	05/23/83
A8	US 4,757,055	07/12/88	Miller et al.	514	44	04/27/84
A9	US 4,762,881	08/09/88	Kauer	525	54.11	01/09/87
A10	US 4,828,979	05/09/89	Klevan et al.	435	6	11/08/84
A11	US 4,937,188	06/26/90	Giese et al.	435	41	04/15/86
A12	US 5,011,770	04/30/91	Kung et al.	435	6	07/24/90
A13	US 5,013,831	05/07/91	Stavrianopoulos	536	27	05/08/90
A14	US 5,143,854	09/01/92	Pirrung et al.	436	518	03/07/90
A15	US 5,151,510	09/29/92	Stec et al.	536	27	04/20/90
A16	US 5,183,885	02/02/93	Bergot	536	25.41	02/02/93
A17	US 5,241,060	08/31/93	Engelhardt et al.	536	27	06/04/90
A18	US 5,252,743	10/12/93	Barrett et al.	548	303.7	11/13/90
A19	US 5,321,131	06/14/94	Agrawal et al.	536	25.34	03/08/90
A20	US 5,405,950	04/11/95	Mock et al.	536	25.32	10/09/87
A21	US 5,407,801	04/11/95	Miller	435	6	08/03/93
A22	US 5,412,087	05/02/95	McGall et al.	536	24.3	05/02/95
A23	US 5,414,077	05/09/95	Lin et al.	536	24.3	05/02/94
A24	US 5,451,683	09/19/95	Barrett et al.	548	302.7	04/23/93
A25	US 5,482,867	01/09/96	Barrett et al.	436	518	04/23/93
A26	US 5,624,711	04/29/97	Sundberg et al.	427	261	04/27/95

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## INFORMATION DISCLOSURE CITATION

## IN AN APPLICATION

(Use several sheets if necessary)

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		Applicant Laibinis et al.	
		Filing Date May 3, 2001	Group Art Unit 1645
C11	Letsinger et al.; "Cholesteryl-Conjugated Oligonucleotides: Synthesis, Properties, and Activity as Inhibitors of Replication of Human Immunodeficiency Virus in Cell Culture", Proc. Natl. Acad. Sci., 86:6531-6536, (September 1989) <span style="float: right;">RECEIVED MAR 15 2002 PATENT &amp; TRADEMARK OFFICE</span>		
C12	Marshall and Caruthers, "Phosphorodithioate DNA as a Potential Therapeutic Drug", Science 259:1564-1570, (March 12, 1993) <span style="float: right;">MAR 20 2002 TECH CENTER 1600/2900</span>		
C13	Milligan et al., "Current Concepts in Antisense Drug Design", Journal of Medicinal Chemistry, 36(14): 1923-1937, (July 9, 1993)		
C14	Shea et al.; "Synthesis, Hybridization Properties and Antiviral Activity of Lipid-Oligodeoxynucleotide Conjugates", Nucleic Acids Research 18(13):3777-3783, (1990)		
C15	Uhlmann and Peyman, "Antisense Oligonucleotides: A New Therapeutic Principles", 90(4): 544-584, (June 1990)		
C16	Zuckermann et al.; "Efficient Methods for Attachment of Thiol Specific Probes to the 3'-ends of Synthetic Oligodeoxyribonucleotides", Nucleic Acids Research, 15(13): 5305-5321, ( 1987)		
EXAMINER		DATE CONSIDERED	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.			

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE